

IRON SHIP 17070

No. 4312 Survey held at Glasgow Date, First Survey 15th January Last Survey 29 September 1876

On the S.S. *Kanaka* (Schooner) Master *Braddick*

TONNAGE under Tonnage Deck	296.97	ONE, OR TWO DECKED, TWO DECKED VESSEL.
Ditto of Third, Spar, or Awaiting Deck.		SEMI, OR REMAINING DECKED VESSEL.
Ditto of Poop, or Raised Qr. Dk.	168.60	HALF BREADTH (moulded) 11.50
Ditto of Houses on Deck	10.23	DEPTH from upper part of Keel to top of Upper Deck Beams 12.54
Ditto of Forecastle	16.85	GIRTH of Half Midship Frame (as moulded) 21.62
Gross Tonnage	492.65	1st NUMBER 4566
Less Crew Space	28.83	2nd NUMBER 7933
	463.82	PROPORTIONS—Breaths to Length 7.55
Less Engine Room	186.20	Depths to Length—Upper Deck to Keel 13.8
Register Tonnage as cut on Beam	277.62	Main Deck to Keel

Built at *Whitburn Glasgow*
 When built *1876* Launched *July*
 By whom built *Thomas King & Co.*
 Owners *John Darling & Co.*
 Port belonging to *Dunedin*
 Destined Voyage *Dunedin*
 Surveyed while Building, Afloat, or in Dry Dock.

PLANS CASE

LENGTH on deck as per Rule ...	Feet. 173	Inches. 9	BREADTH—Moulded ...	Feet. 23	Inches. 0	DEPTH top of Floors to Upper Deck Beams ...	Feet. 11	Inches. 5 1/2	Power of Engines ...	Horse. 120	Nº. of Decks with flat laid	One
						Do. do. Main Deck Beams ...					Nº. of Tiers of Beams	Two

Dimensions of Ship per Register, length, 173.8 breadth, 23.2 depth, 11.4

	Inches in Ship			Inches per Rule		
	In Ship	Inches	16ths	Inches	Inches	16ths
KEEL, depth and thickness ...	7 1/4	17 1/8	5	7 1/4	17 1/8	5
STEM, moulding and thickness ...	7 1/4	17 1/8	5	7 1/4	17 1/8	5
STERN-POST for Rudder do. do. for Propeller ...	8	3 1/4	5	8	3 1/4	5
Distance of Frames from moulding edge to moulding edge, all fore and aft ...	21			21		
FRAMES, Angle Iron, for 2/3 length amidships ...	3	3	6	3	3	6
Do. for 1/2 at each end ...	3	3	6	3	3	6
REVERSED FRAMES, Angle Iron ...	2 1/2	2 1/2	5	2 1/2	2 1/2	5
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships ...	16			16		
thickness at the ends of vessel ...				5		
depth at 3/4 the half-bdth. as per Rule ...	7			6 1/2		
height extended at the Bilges ...	26			26		
BEAMS, Upper, Spar, or Awaiting Deck Single or Wide Ang. Iron, Wide or Two Wide Keel ...	5 1/2	4	8	5 1/2	4	8
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Average space ...	42			42		
BEAMS, Main, or Middle Keel ...						
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Average space ...						
BEAMS, Lower Work, Wide or Two Wide Keel ...	4 1/2	2 1/2	6			
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Average space ...						
KEELSONS Centre line, Wide or Middle Plate ...	11			6		
or Intercoastal, Plates ...						
" Rider Plate (7) ...	8			9		
" Wide or Middle Plate ...						
" Angle Irons ...	3 1/2	3	6	3 1/2	3	6
" Double Angle Iron Side Keelson ...	3 1/2	3	6	3 1/2	3	6
" Wide or Middle Plate ...						
" Wide or Middle Plate ...						
" Wide or Middle Plate ...						
BILGE Angle Irons ...	3 1/2	3	6	3 1/2	3	6
" do. Bulb Iron ...	6			6		
" do. Wide or Middle Plate ...						
BILGE STRINGER Angle Irons ...	3 1/2	3	6	3 1/2	3	6
Intercoastal plates riveted to bilge ...	6			6		
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Single or Wide Ang. Iron, Wide or Two Wide Keel ...						
Average space ...						
SIDE STRINGER Angle Irons ...	3 1/2	3	6	3 1/2	3	6

	Inches in Ship	16ths in Ship	Inches per Rule	16ths per Rule
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges ...	30	9	30	9
fm up. part of Bilge to lr. edge of Sh'rstrake			7 1/8	7 1/8
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied	51	9	51	9
Butt Straps to outside plating, breadth & thickness	16 1/4	9 3/4	16 1/4	9 3/4
Lengths of Plating ...	5 3/4	6 3/4	9 3/4	9 3/4
Shiffts of Plating, and Stringers ...	2 1/2	2 1/2	5 1/2	5 1/2
Gunwale Plate on ends of Upper Deck Beams, breadth and thickness ...	40	8	40	8
Angle Iron on ditto ...	3 1/2	3.6	3 1/2	3.6
Tie Plates fore and aft, outside Hatchways ...	8	7/16		
Waterways do. do. ...				
Flat of Upper Deck do. ...				
How fastened to Beams ...				
Stringer Plate on ends of Main or Middle Deck ...				
Is the Stringer Plate attached to the outside plating? ...				
Keel Irons on ditto, do. ...				
The Plates, outside Hatchways ...				
Diagonal Tie Plates on Beams, No. of pairs ...				
Plates riveted to Beams ...				
Stringer Plates on ends of Lower Decks, Head or Orlop Beams ...				
Is the Stringer Plate attached to the outside plating? ...				
Keel Irons on ditto, do. ...				
Diagonal Tie Plates, outside Hatchways ...				
Plates on Lower Deck ...				
Ceiling betwixt Decks, thickness and material ...				
in hold do. do. ...				
Main piece of Rudder, diameter at head ...				
do. at heel ...				
Can the Rudder be unshipped afloat? ...				
Bulkheads No. 5 Thickness of ...				
Height up ...				
How secured to sides of ship ...				
Size of Vertical Angle Irons ... and distance apart ...				
Are the outside Plates doubled two spaces of Frames in length? ...				

Transoms, material. Knight-heads. Hawse Timbers. *Plate & iron*
 Windlass *Reaper Patent* Pall Bitt *Not required*

The FRAMES extend in one length from *Keel* to *gunwale* Riveted through plates with *3/4* in. Rivets, about *6* apart.

The REVERSED ANGLE IRONS on floors and frames extend from *middle line* to *upper deck* and to *lower deck*

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? *Yes* And butts properly shifted? *Yes*

PLATING. Garboard, double riveted to Keel, with rivets *1* in. diameter, averaging *5* ins. from centre to centre.
 Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets *3/4* in. diameter, averaging *3 1/4* ins. from centre to centre.
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets *3/4* in. diameter averaging *3 1/4* ins. from centre to centre.
 Butts of *2* Strakes at Bilge for *100 ft* length, treble riveted with Butt Straps *7/16* thicker than the plates they connect.
 Edges from bilge to Main Sheerstrake, worked clencher, double ~~or single~~ riveted; with rivets *3/4* in. diameter, averaging *3 1/4* ins. from cr. to cr.
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets *3/4* in. diameter, averaging *3 1/4* ins. from cr. to cr.
 Edges of Main Sheerstrake, double ~~or single~~ riveted. *Upper Sheerstrake, inside or single riveted.*
 Butts of Main Sheerstrake, treble riveted for *100 ft* length amidships. *Butts of Upper or Spar Sheerstrake, treble riveted length amidships.*
 Butts of Main Stringer Plate, treble riveted for *100 ft* length amidships. *Butts of Upper or Spar Stringer Plate, treble riveted length.*
 Breadth of laps of plating in double riveting *4 1/2* Breadth of laps of plating in single riveting *—*

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double ~~or single~~ Riveted?
 Waterway, how secured to Beams (Explain by Sketch, if necessary.)
 Beams of the various Decks, how secured to the sides? *Welded to beams* No. of Breasthooks, *4* Crutches, *3*
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Best & Best*
 Manufacturer's name or trade mark, *Cox & Medford*

The above is a correct description.
 Builder's Signature, *Mr. King & Co.* Surveyor's Signature, *Lawrence*
 Surveyor to Lloyd's Register of British and Foreign Shipping.

2920-8940011

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*
 Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *Yes*
 Are the fillings between the ribs and plates solid single pieces? *Yes*
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes*
 Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *Yes*
 Do any rivets break into or through the seams or butts of the plating? *A few, only in butts.* 17010 *Ln*

Masts, Bowsprit, Yards, &c., are *new* in *good* condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit
Set pin Lower Masts Ten Mast 60ft Main Mast 54.6"
Schooner Rigged

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd pr Rule.	Test req'd per Rule.	ANCHORS.	N ^o .	Weight. Ex. Stock.	Test per Certificate	W'ght req'd per Rule.	Test req'd per Rule.	
N ^o .	SAILS.	CABLES, &c.		30.8.0.0 20.6.0.0	165-176	30.8.0.0 20.6.0.0	Bowers	3	8.2.27 8.2.8 7.0.8	10.17.0.0 10.15.0.0 9.7.0.0	8.1.0 8.1.0 7.0.2	10.7.0.0 10.7.0.0 9.5.0.0	
		Chain											
One	Fore Sails,	Tested at Pertherton 24 th June 1876.						Tested at Pertherton 24 th June 1876.				Certificates signed D. G. Lewis	
Sail	Fore Top Sails,	Certificates signed D. G. Lewis											
	Fore Topmast Stay Sails	Hmpn Strm Cbl	90	8"	90-7 1/2		Stream	1	3.0.12		3.0.0		
	Main Sails,	Hawser ...	90	6"	90-6		Kedges	1	1.1.17	✓	1.2.0		
	Main Top Sails,	Towlines ...	90	4 1/2"	90-6								
		Warp ...	90	4 1/2"	90-6								
		quality											

Standing and Running Rigging *new & hemp* sufficient in size and *good* in quality. She has *1 Life Boat* and *2 others*
 The Windlass is *Rapier Patent* and Rudder *Good* Pumps *In each compartment Good*
Engine Room Skylights.—How constructed? *Teak on Iron Comings* How secured in ordinary weather? *Bolts &c*
 What arrangements for deadlights in bad weather? *Tarpauline over gratings*
Coal Bunker Openings.—How constructed? *Cast Iron* How are lids secured? *Self locking* Height above deck? *1 1/2 inches*
Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *One gangway. One pipe one joint*
And one scupper on each side
Cargo Hatchways.—How formed? *Iron Comings*
 State size **Main Hatch** *10'6" x 8'0"* **Quarterhatch** *8'9" x 8'1"*
 If of extraordinary size, state how framed and secured? *Usual size*
 What arrangement for shifting beams? *—*
Hatches, If strong and efficient? *Yes*

Order for Special Survey No.	Date	Order for Ordinary Survey No.	Date	No.	in builder's yard.	DATES of Surveys held while building as per Section 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought	2nd. On the plating during the process of riveting	3rd. When the beams were in and fastened, and before the decks were laid...	4th. When the ship was complete, and before the plating was finally coated or cemented..	5th. After the ship was launched and equipped
1134	29 th Dec 1875			209			Januar 13. 26. 28. February 2. 5. 28. March	3. 7. 14. 18. 20. 30. April 5. 13. 20. 27. May	4. 9. 15. 16. 18. 22. June 1. 6. 12. 16. 23. 27	July 4. 25. 31. August 10. 12. 30. September	7. 18. 27. 29. 1876.

General Remarks (State quality of workmanship, &c.)
The workmanship is very good. She is constructed in accordance with the approved drawings attached, and Surveyor's Letter of 30th January 1876.

Poop 121ft. Forecastle 31'0"
 State if one, two, or three, decked vessel, or if open, or nesting vessel; and the length of poop, fore-castle, or raised quarter deck, and the height of deck, or gunwale below.

How are the surfaces preserved from oxidation? Inside *Cement & Paint* Outside *Paint (Cranford Patent on Bottom)*
 I am of opinion this Vessel should be Classed *100A*

The amount of the Entry Fee ... £ 5 : : : is received by me,
 Special ... £ 23 : 4 : October 1876
 Certificate ... *Printed*
 (Travelling Expenses, if any, £ 2. 2. 4)

Committee's Minute *6th October 1876*
 Character assigned *100A*
J.W. Lloyd & Co. Rep

